



BP Products North America Inc.  
2815 Indianapolis Blvd.  
P.O. Box 710  
Whiting, IN 46394-0710  
USA

February 14, 2014

**SUBMITTED ELECTRONICALLY**

Director, Air Enforcement Division  
Office of Civil Enforcement (2242A)  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency  
1200 Pennsylvania Ave., N.W.  
Washington, DC 20004

Compliance Tracker (AE-17J)  
Air Enforcement and Compliance Assurance branch  
U.S. EPA, Region 5  
77 W. Jackson Blvd.  
Chicago, IL 60604

Office of Regional Counsel  
U.S. EPA, Region 5  
77 West Jackson Blvd. (C-14J)  
Chicago, IL 60604

Re: **United States, et.al. v. BP products North America Inc.**  
**Northern District of Indiana, Hammond Division**  
**Civil Action No. 2:12 CV 207**  
**Part VIII and Benzene Waste NESHAP Semi-Annual Report**

NO EPA ACTION REQUIRED: Information is being submitted for information purposes only.

In accordance with Part VIII and ¶ 62 of the referenced Consent Decree, attached is the semi-annual report.  
The report is certified pursuant to ¶ 102.

I certify under penalty of law that this information was prepared under my direction or supervision by personnel qualified to properly gather and evaluate the information submitted. Based on my directions and after reasonable inquiry of the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

If you require additional information, please contact Linda Wilson at (219) 473-3287.

Sincerely,

Nick Spender  
Business Unit Leader  
BP Whiting Refinery

**Attachment**

**E-mail distribution:**

csullivan@matrixnewworld.com  
foley.patrick@epa.gov  
ioukeris.constantinos@epa.gov  
Whiting.CD.Tracker@bp.com

9G12

**Submitted hard-copy:**

cc w/o attachment:

Chief  
Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
P.O. Box 7611  
Ben Franklin Station  
Washington, DC 20044-7611  
Reference Case No. 90-5-2-1-09244

cc w/ attachment:

Office of the Indiana Attorney General  
Environmental Litigation Division  
Indiana Government Center South- Fifth Floor  
302 West Washington Street  
Indianapolis, IN 46204

Chief, Air Compliance and Enforcement Branch  
Indiana Department of Environmental Management  
100 North Senate Avenue  
MC 61-53, IGCN 1003  
Indianapolis, IN 46204-2251

**Table of Contents**  
**Section I: Part VIII Report**

Reporting and Recordkeeping – CD ¶ 98 .....	6
Summary of Emissions – CD ¶ 98.a .....	6
NOx emissions for each heater and boiler > 40 mmBtu/hr – CD ¶ 99.a .....	6
Sum of NOx emissions for all heaters and boilers < 40 mmBtu/hr – CD ¶ 99.b .....	6
SO <sub>2</sub> , CO and PM emissions for all heaters and boilers – CD ¶ 99.c .....	6
SO <sub>2</sub> Emissions from the Sulfur Recovery Plant– CD ¶ 99.d .....	6
SO <sub>2</sub> emissions from all Acid Gas Flaring and Tail Gas Incidents by flare – CD ¶ 99.e .....	7
NOx, SO <sub>2</sub> , PM and CO emissions for all other units – CD ¶ 99.f .....	7
NOx, SO <sub>2</sub> , CO and PM emissions for each FCCU – CD ¶ 99.g .....	7
Emissions from Covered Flares and the LPG Flare – CD ¶ 99.h .....	7
Basis for the emissions estimate – CD ¶ 99.i .....	7
Description of any problems – CD ¶ 98.b .....	7
Description of Supplemental Environmental Project – CD ¶ 98.c .....	8
Monitoring Instrument/Equipment Downtime – CD ¶ 98.d .....	8
Downtime of each monitoring instrument for the Covered Flare and the LPG Flare – CD App.D.72.a .....	8
Identification of the periods of downtime by date, time, cause for downtime > 110 hours per calendar quarter – CD App.D.72.b .....	10
Number of hours when the Automatic Control System was overridden – CD App.D.72.c .....	10
Identification of the periods of downtime by date, time, cause for override time > 110 hours per calendar quarter – CD App.D.72.d .....	10
Number of hours when only Pilot Gas or Purge Gas was vented – CD App.D.72.e .....	10
Number of hours of exceedances of the applicable standards during Hours of Applicability – CD App.D.72.f .....	11
Identification of each averaging period that exceeded the standard during the Hours of Applicability – CD App.D.72.g .....	11
Flaring Limitations Exceedances – CD App.D.72.h .....	12
Additional matters – CD ¶ 98.e .....	12
Additional items required by the Consent Decree – CD ¶ 98.f .....	14
Fuel Gas Total Sulfur Monitor Location – CD ¶ 42.a .....	14
CEMS Root Cause Failure Analysis – CD ¶ 48.c .....	14
Dual Carbon Canisters – CD ¶ 52.a.ii .....	14
Single Carbon Canisters – CD ¶ 52.b.ii .....	14
Single Carbon Canister Replacement – CD ¶ 52.b.iv .....	14
Alternate Control/Treatment Devices for BWON – CD ¶ 52.c .....	15
SRP O&M Plan Modifications – CD ¶ 67.c .....	15
SRP Sulfur Storage Tanks – CD ¶ 69.c .....	15
FLIR Monitoring Inspections and Corrective Actions – CD ¶ 75 .....	15
SEP Implementation Progress – CD ¶ 91 .....	17
Emissions limit exceedance for units monitored by CEMS – CD ¶ 100.a .....	17
Emissions limit exceedance for units monitored by stack testing – CD ¶ 100.b .....	17
Results of performance testing on both FCCU units – CD ¶ 101.a .....	17
Copies of all reports required by NSPS Ja – CD ¶ 101.b .....	17
Copies to Citizen-Intervenor of all reports of emission testing – CD ¶ 101.c .....	18
Commercial Unavailability of Low-Leaking Valve or Packing Technology – CD App.B.38(c) .....	18
Minimizing Sweep and Purge Gas Flow – CD App.D.3 .....	18
Waste Gas Minimization Plan – CD App.D.20 .....	19
Prohibition on Discontinuous Wake Dominated Flow or Requirement for Minimum MFR – CD App.D.35.a .....	19
LPG Flare Requirements: Instrumentation and Monitoring Systems – CD App.D.42.d .....	19
Waste Gas Minimization for LPG Flare – CD App.D.43 .....	19
LPG Flare Requirements: Instrumentation and Monitoring Systems – CD App.D.49.c .....	20
Submitting the Internal Flaring Incident reports – CD App.D.57 .....	20
Submitting the Internal Flaring Incident reports – CD App.D.57.g .....	20

**Description of Supplemental Environmental Project – CD ¶ 98.c.**

..... A description of the Supplemental Environmental Project and implementation activity in accordance with this Consent Decree.

The Fence Line Monitoring Supplemental Environmental Project (SEP) update includes the following:  
**Summary of implementation activity** - All four monitoring shelter locations were identified with input from the Community Advisory Committee (CAC) on July 2, 2012 as well as the U.S. EPA on August 16, 2012. A Quality Assurance Project Plan (QAPP) was completed and submitted on December 20, 2012, pursuant to Appendix E of the Consent Decree. All four monitoring shelter sites are on site and have been installed, with mechanical completion at three of the sites during this reporting period.

**Monitoring Instrument/Equipment Downtime – CD ¶ 98.d.**

..... The information specified in Paragraph 72 of Appendix D (“Monitoring Instrument/Equipment Downtime; Override of ACS; and Emissions Exceedances”)

BPP’s response to CD App.D.72.a. – 72.h for information pertaining to Monitoring Instrument/Equipment Downtime; Override of ACS; and Emissions Exceedances for this reporting period are below. The South and LPG flares are the only flares in operation to which the requirements of Paragraph 72 apply.

**Downtime of each monitoring instrument for the Covered Flare and the LPG Flare – CD App.D.72.a.**

..... BPP shall provide a summary of the following, per Covered Flare and the LPG Flare per calendar quarter..... The total number of hours of downtime of each monitoring instrument/equipment expressed as both an absolute number and a percentage of time the Covered Flare and the LPG Flare that the instrument/equipment monitors is available for operation.

Below are tables listing the availability of the equipment required pursuant to App. D, Paragraphs 7 through 9, and 11 through 13, expressed as an absolute number and percentage of time for the third and fourth quarter.

**Third Quarter Availability**

Source	Monitored Parameter	Total Operating Hours <sup>a</sup>	Downtime	
			Hours	Percentage
Meteorological Station	Wind Speed	2,208.0	0.00	0.00%
	Ambient Temperature	2,208.0	0.00	0.00%
South Flare	Waste Gas Flow Meter	2,208.0	0.00	0.00%
	Waste Gas Temperature	2,208.0	0.00	0.00%
	Waste Gas Pressure	2,208.0	0.00	0.00%
	Waste Gas Molecular Weight	2,208.0	1.43	0.06%
	Total Natural Gas Flow Meter	2,208.0	0.65	0.03%
	Total Natural Gas Temperature	2,208.0	0.00	0.00%